

Fix-It-Right

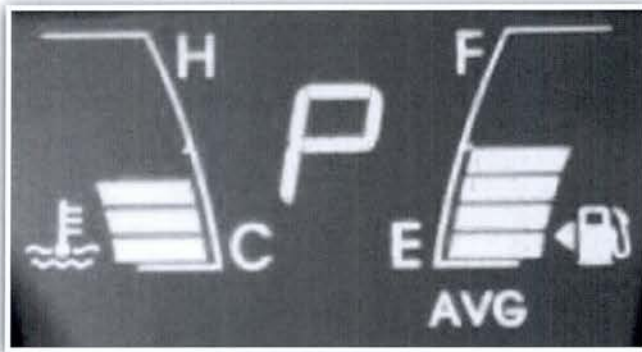
FUEL SENDER INSPECTION PROCEDURE

DESCRIPTION:

This article outlines the procedure to inspect the fuel level sender. If any of the following symptoms are found, follow the inspection procedure described below.

SYMPTOMS:

- Vehicles may display a check engine light on with the following DTC:
 - P0461: Fuel Level Sender Circuit Range/Performance
 - P0462: Fuel Level Sender Circuit Low Input
 - P0463: Fuel Level Sender Circuit High Input
 - B1562: Fuel Sender ERR (YF Only)
- Customer concern of an erratic or unresponsive fuel gauge.
- Fuel gauge does not reach the full level after filling the fuel tank.



APPLICABLE VEHICLES:

- 2012MY and later Genesis Coupe (BK) 2.0T / 3.8L
- 2006-2010MY Sonata (NF) 2.4L / 3.3L
- 2011MY and later Sonata (YF) 2.0T / 2.4L
- 2010MY and later Tucson (LM) 2.0L / 2.4L

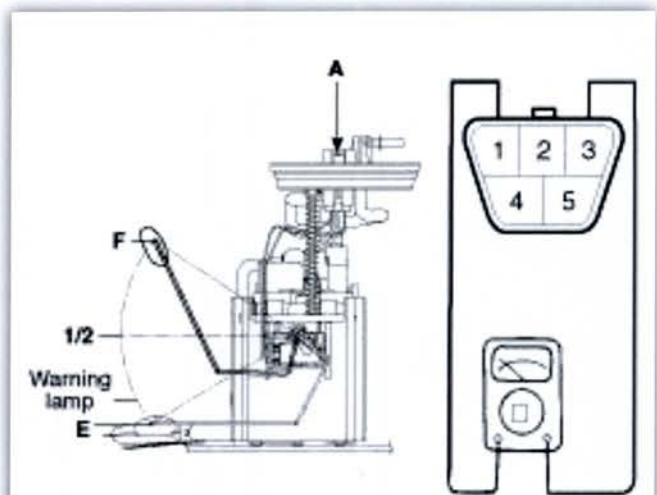
WARRANTY INFORMATION –
Normal warranty applies.

INSPECTION PROCEDURE:

I. Fuel Sender Resistance and Gauge Level Position

NOTE: The vehicle should be parked on a level surface before checking the fuel level.

1. Turn the engine off and wait at least 40 seconds.
2. Gain access to the fuel pump by referring to the applicable Service Shop Manual: Fuel System ➡ Fuel Delivery System ➡ Fuel Tank ➡ Repair procedures section.
3. Locate the fuel sender connector (A) on top of the fuel pump.



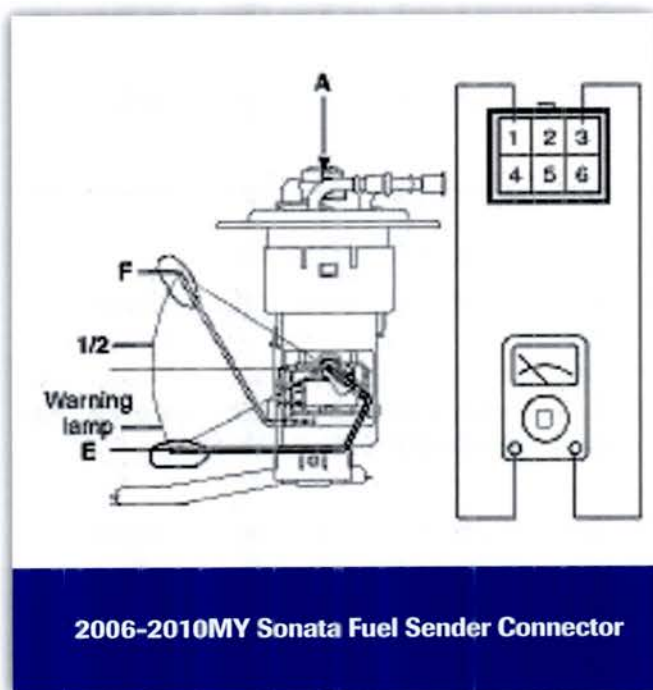
**Genesis Coupe, Tucson, and 2011MY and later
Sonata Fuel Sender Connector**

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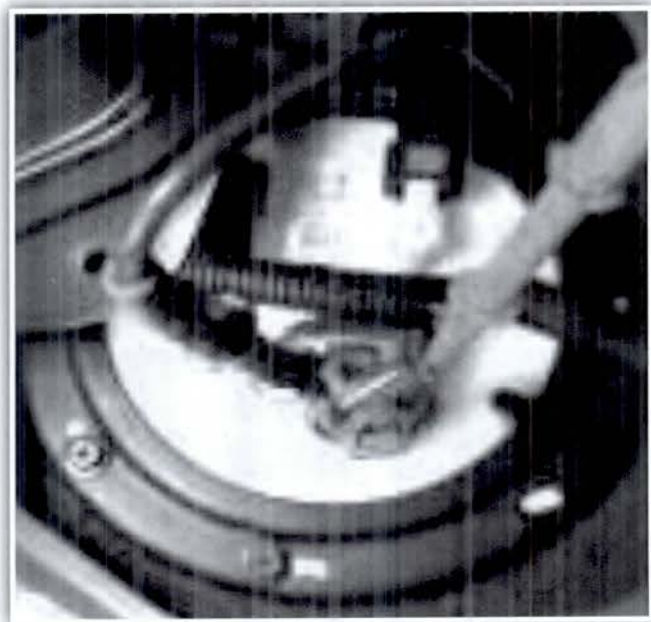
Fuel Sender Inspection Procedure

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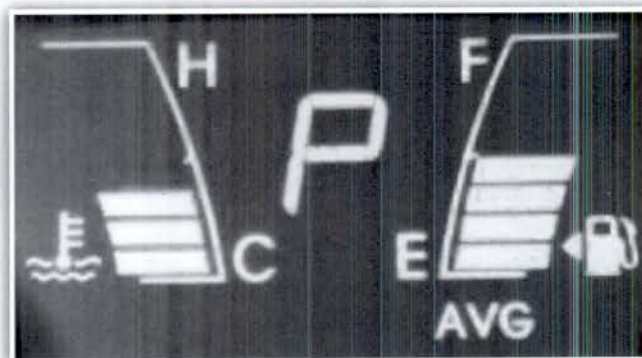
4. Set multimeter to ohms and back probe the fuel sender connector (A) to measure the resistance between pins 1 and 3.

NOTE: Do not disconnect the fuel sender connector. The fuel gauge will reset if left disconnected for more than 30 seconds.

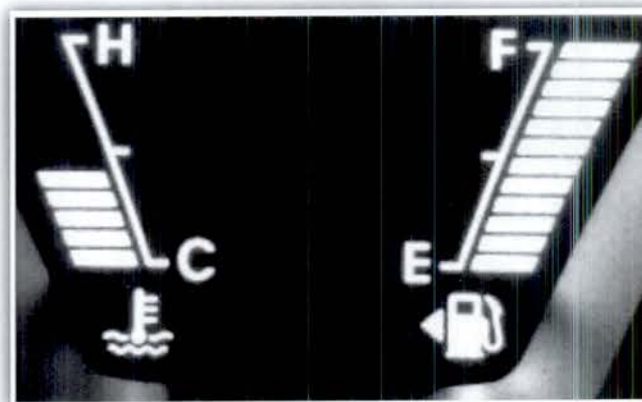


5. Compare measured resistance and the fuel gauge reading with the specifications below:

Fuel Gauge Position	Resistance Specifications (Ω)			
	2011MY and later Sonata	2006-2010MY Sonata	2012MY and later Genesis Coupe	2009MY and later Tucson
Empty (E)	198~202	182~202	191~195	182~202
Warning lamp On	168~172	168~172	185~189	168~172
1/2 Full	70~75	64~68	102~106	64~68
Full (F)	6~17	6~17	12~16	6~17



Fuel gauge at 1/2 Full



Fuel gauge at Full

6. If the resistance is out of specification or there is an open circuit, go to the sender sweep test.